



BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

*Name of Work: Estimate for Improvements to Roads and
Drains at Vyshanavi Layout in Ward No. 11,
(Kuvempunagara).*

Job Code:

Estimated Cost: Rs: 37.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: Estimate for Improvements to Roads and Drains at Vyshanavi Layout in Ward No. 11, (Kuvempunagara).

		Estimate Cost:						3700000.00	
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 Page No. 143 / Item No. 19.1, PWD SR 2018-19	Cum							
	Desilting of Drain								
	Vyshnavi Layout 1st Main Road		2	448.00	0.45	0.45	181.44		
	Culverts		4	5.00	1.80	1.10	39.60		
							221.04	243.88	53907.00
	Basic Rate	130.00							
	Area Weightage @ 6%	7.80							
	Sub Total	137.80							
	Add loading and unloading Charges It No 17.1 KSRRB M 100-1	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
	Total	243.88							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No. 2100 Item No. 27.18 Page No. 222, PWD SR 2018-19	cum							
	Culverts		4	5.00	1.60	0.15	4.80		
	Basic Rate	5115.00					4.80	5421.90	26025.00
	Area Weightage @ 6%	306.90							
	Total	5421.90							
3	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. Page No. 255, Item No. 34.9, PWD SR 2018-19	cum							
			2x4	5.00	0.60	0.45	10.80		
			2x4	5.00	0.45	0.45	8.10		
	Basic Rate	5483.00					18.90	5811.98	109846.00
	Area Weightage @ 6%	328.98							
	Total	5811.98							
4	KSRB 15.1.3 Providing ruled pointing 20 mm deep to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications Page No. 115 / Item No. 15.3, PWD SR 2018-19	Sqm							
			2x4	5.00		0.90	36.00		
	Basic Rate	142.00					36.00	150.52	5419.00
	Area Weightage @ 6%	8.52							
	Total	150.52							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
5	Providing precast slab of 250mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge - (Data rate Approved).	Sqm							
			8x4	1.50	0.60		28.80		
							28.80	5418.00	156038.00
6	KSRRB 300-47. Scarifying kankar / gravel / metal crust upto 150mm thick with pick axes and disposal of stuff including cost of all labour charges complete as per specifications. MORTH / Chapter 3 Page No. 146 / Item No. 19.53 PWD SR 2018-19	Sqm							
	Vyshnavi Layout 1st Main Road		1	448.00	5.00		2240.00		
	Basic Rate	40.00					2240.00	42.40	94976.00
	Area Weightage @ 6%	2.40							
	Total	42.40							
7	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occurring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 Page No. 147, Item No. 19.64, PWD SR 2018-19	Sqm							
	Vyshnavi Layout 1st Main Road		1	448.00	5.00		2240.00		
	Basic Rate	6.00					2240.00	6.36	14246.00
	Area Weightage @ 6%	0.36							
	Total	6.36							
8	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 Page No. 155 / Item No. 20.18, PWD SR 2018-19	Cum							
	Vyshnavi Layout 1st Main Road		1	448.00	5.00	0.23	515.20		
	Basic Rate	1888.00					515.20	2001.28	1031059.00
	Area Weightage @ 6%	113.28							
	Total	2001.28							
9	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 Page No. 158 / Item No. 21.6, PWD SR 2018-19	Sqm							
	Vyshnavi Layout 1st Main Road		1	448.00	5.00		2240.00		
	Basic Rate	32.00					2240.00	33.92	75981.00
	Area Weightage @ 6%	1.92							
	Total	33.92							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
10	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen Page No. 159 / Item No. 21.11.6, PWD SR 2018-19	Cum							
	Vyshnavi Layout 1st Main Road		1	448.00	5.00	0.05	112.00		
	02-11-2021 Revised Basic Rate	6384.00					112.00	6767.04	757908.00
	Area Weightage @ 6%	383.04							
	Total	6767.04							
11	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 Page No. 158 / Item No. 21.2, PWD SR 2018-19	Sqm							
	Vyshnavi Layout 1st Main Road		1	448.00	5.00		2240.00		
	Basic Rate	5.00					2240.00	5.30	11872.00
	Area Weightage @ 6%	0.30							
	Total	5.30							
12	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 Page No. 158 / Item No. 21.7 PWD SR 2018-19	Sqm							
			Qty Vide Item No. 11				2240.00		
	asper Revised Basic Rate	12.00					2240.00	12.72	28493.00
	Area Weightage @ 6%	0.72							
	Total	12.72							
13	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen Page No. 162 / Item No. 21.22.6, PWD SR 2018-19	Cum							
	Vyshnavi Layout 1st Main Road		1	448.00	5.00	0.040	89.60		
	02-11-2021 Revised Basic Rate	9435.00					89.60	10001.10	896099.00
	Area Weightage @ 6%	566.10							
	Total	10001.10							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
14	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Bead on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 Page No. 182, Item No. 24.15 PWD SR 2018-19	Sqm							
	Vyshnavi Layout 1st Main Road		2	448.00	0.10		89.60		
							89.60	454.74	40745.00
	Basic Rate	429.00							
	Area Weightage @ 6%	25.74							
	Total	454.74							
	Sub Total								3302614.00
	GST @ 12%								396314.00
	Miscellaneous and other Charges	L/S							1072.00
								Total	3700000.00
Rupees Thirty Seven Lakh(s) Only									

CERTIFICATE:

- 1 The work spot has been inspected and the work is found necessary.
- 2 This estimate is prepared as per PWD SR of 2018-19.
- 3 The provisions were made in this estimate are necessary and adequate.
- 4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyanayapura Sub Division

Executive Engineer

Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

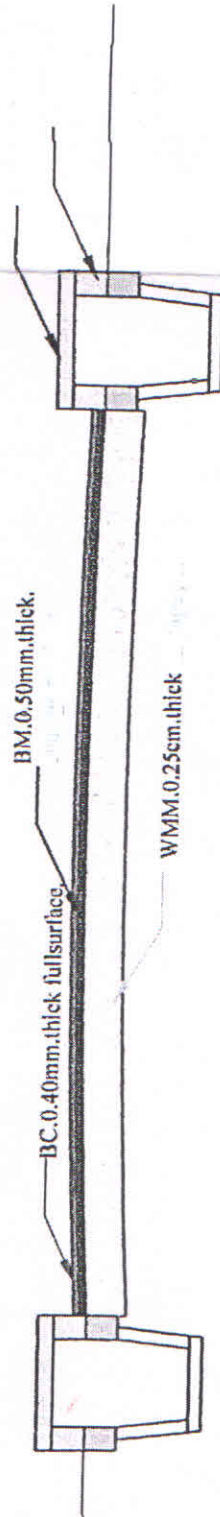
Technical Sanction
Accorded For 37.00 Lakhs
Head of A/C. Pao (P-3726)
CER NO : 84 Dt: 13/12/2021

Administrative Approval

Accorded For 37.00 Lakhs
Head of A/C. Pao (P-3726)
CER NO : 80 Dt: 13/12/2021

TA

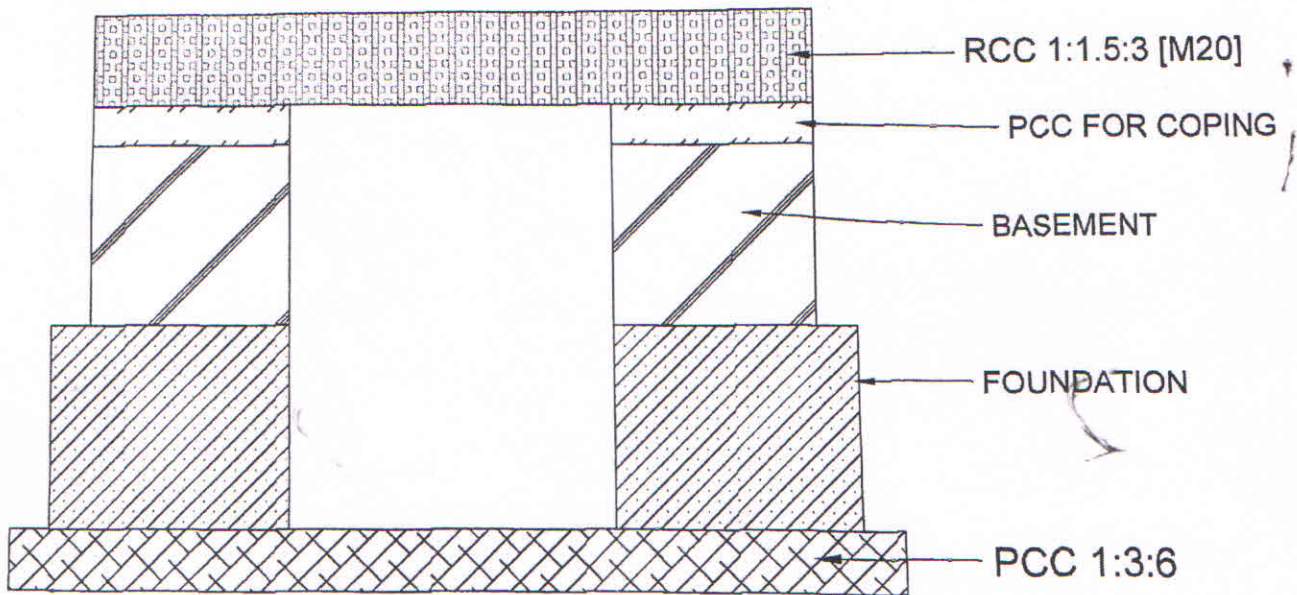
CE (YNI)



CROSS SECTION OF ASPHALT ROAD.

[Signature]
 ASSISTANT ENGINEER.

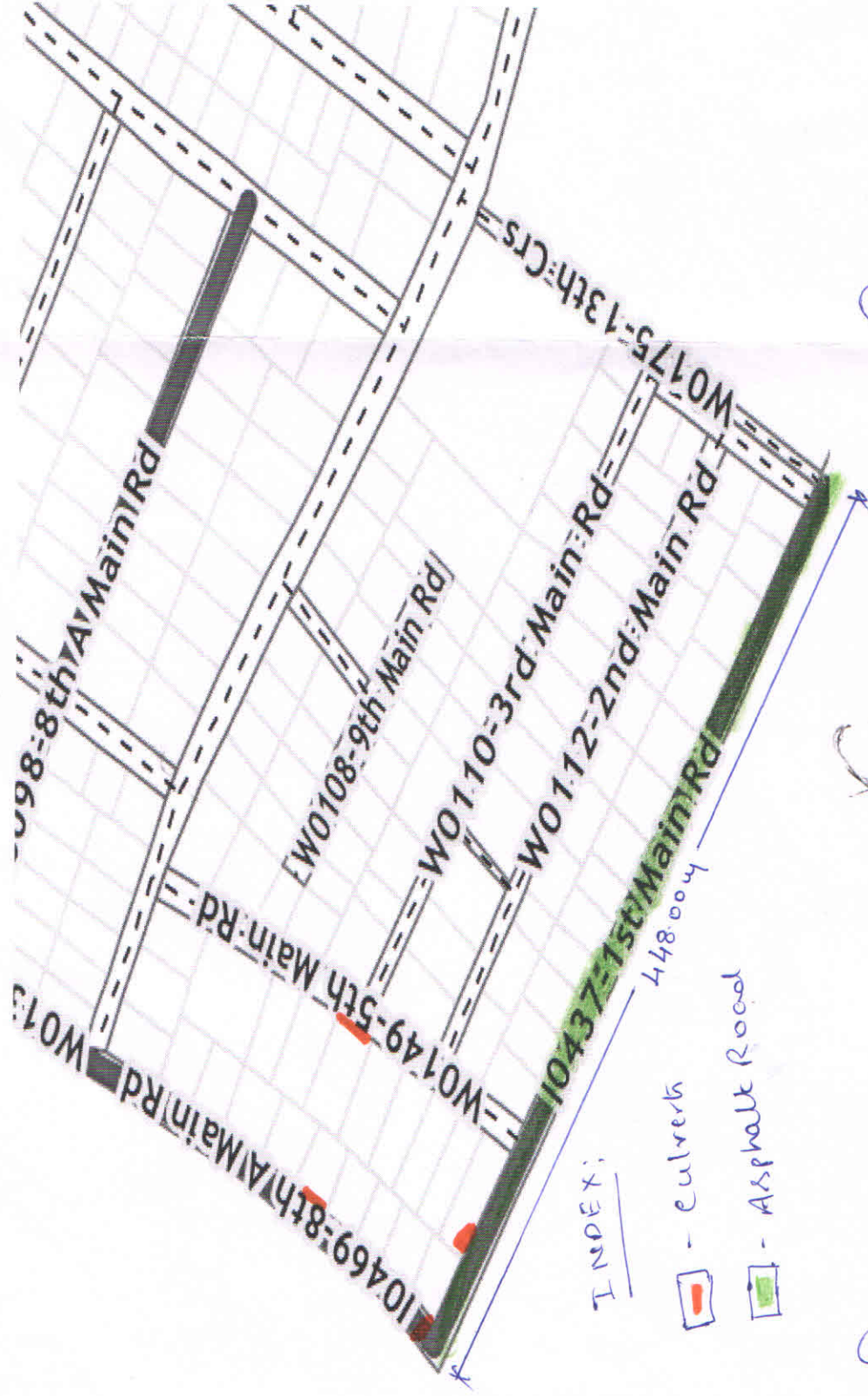
[Signature]
 ASSISTANT ENGINEER
 Vidyaranya Sub Division
 BBMP, Bangalore - 97



CROSS SECTION FOR CULVERT

Assistant Executive Engineer
Vidyarany Sub Division
BBMP, Bangalore - 97

Name of Work: Repair and Maintenance of Roads and Drains in Ward No. 11 (Kuvempunagara).



Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranya Sub Division
BBMP, Bangalore - 97



Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

INDEX

	PROPOSED WAR
	RIVER/ DRAIN
	RAILWAY LINE
	ROAD

INDEX

	PROPOSED WARD BOUNDARY
	RIVER/ DRAIN
	RAILWAY LINE
	ROAD